

CLAIMS

What is claimed is:

1. A system for modularizing a business application, said system comprising:
 - 4 a browser which manages a user presentation interface for said business application, the browser configured to support client side scripting; and
 - 7
 - 8 an application server coupled to the browser and having:
 - 9_{nh} a Module Controller Servlet for opening, closing and
 - 10_{nh} managing at least one Module associated with the business application, said Module including:
 - 11_{nh} at least one Extension component which is
 - 12_{nh} selected from a plurality of Extension components, each Extension component defining at least one particular business method/ function associated with the business application, said Extension component invoked as required by the business application, and
 - 13_{nh} a Data Store having at least one associated data set which is selected from a plurality of data sets containing data associated with the business application; and
 - 14_{nh} a server-side script processing engine for processing scripts submitted by the browser.

1 2. The system of claim 1, wherein the Module modifies the at least one
2 data set associated with the Data Store as a user makes changes to data
3 associated with the business application via the user presentation interface.

1 3. The system of claim 2 wherein the Data Store further include a Data
2 Source Module which interacts with the at least one data set and transfers
3 modifications to the data set to a back-end database.

1 4. The system of claim 1, wherein the at least one Module associated
2 with the business application further includes a Module Deployment
3 Descriptor which defines the at least one associated data set which has been
4 selected for the Data Store.

1 5. The system of claim 4, wherein the Module Deployment Descriptor
2 further defines which of the at least one Extension components is selected
3 from the plurality of Extension components for inclusion in the Data Store.

1 6. A computer program product including computer readable program
2 code for causing a browser and an application server to manage a business
3 application, said computer readable program code comprising:
4 code for causing the browser to support client side scripting;
5 code for causing the application server to open, close and otherwise
6 managing at least one Module associated with the business application, said
7 Module including

8 at least one Extension component which is selected from a
9 plurality of Extension components, each Extension
10 component defining at least one particular business
11 method/ function associated with the business application,
12 said Extension component invoked as required by the
13 business application, and
14 a Data Store having at least one associated data set which is
15 selected from a plurality of data sets containing data
16 associated with the business application; and
17 code for causing the application server to process scripts submitted
18 by the browser.

1 7. The computer program product of claim 6, where the computer
2 program product further includes additional computer readable program
3 code which configures the at least one Module associated with the business
4 application each time the Module is accessed, said additional computer
5 readable program code comprising:

6 a Module Deployment Descriptor which defines the at least one
7 associated data set which has been selected for inclusion in the
8 Data Store.

1 8. The computer program product of claim 7, wherein the Module
2 Deployment Descriptor defines which of the at least one Extension
3 components is selected from the plurality of Extension components for
4 inclusion in the Module.

1 9. The computer program product of claim 6, wherein the computer
2 program product further includes computer readable code designed to
3 modify the at least one data set associated with the Data Store as a user
4 makes changes to data associated with the business application via the
5 browser.

1 10. A dynamic, self-configurable Module which supports an entire
2 business application process, said Module comprising:

3 a Data Store having at least one associated data set which is
4 selected from a plurality of data sets containing data associated
5 with the business application; and
6 at least one Extension component which is selected from a
7 plurality of Extension components, each Extension component
8 defining at least one particular business method/ function
9 associated with the business application, said Extension
10 component invoked as required by the business application.

1 11. The dynamic, self-configurable Module of claim 10, wherein the
2 Module invokes a thread or instance to a Script Processing Engine in order
3 to process the at least one business method/function of the at least one
4 Extension component at runtime.

1 12. The dynamic, self-configurable Module of claim 10, wherein the
2 Module has the capability to read from and write to the at least one data set
3 associated with the Data Store in accordance with user input.

1 13. The dynamic, self-configurable Module of claim 10, wherein the
2 Data Store further includes a Data Source Module which interacts with the
3 at least one data set and transfers modifications to the data set to a back-end
4 database.